

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121021\
 Data File : VD071248.D
 Acq On : 10 Dec 2021 13:36
 Operator : VA/SY
 Sample : M4967-04RE
 Misc : 5.08G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7DRE

Quant Time: Dec 10 15:25:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

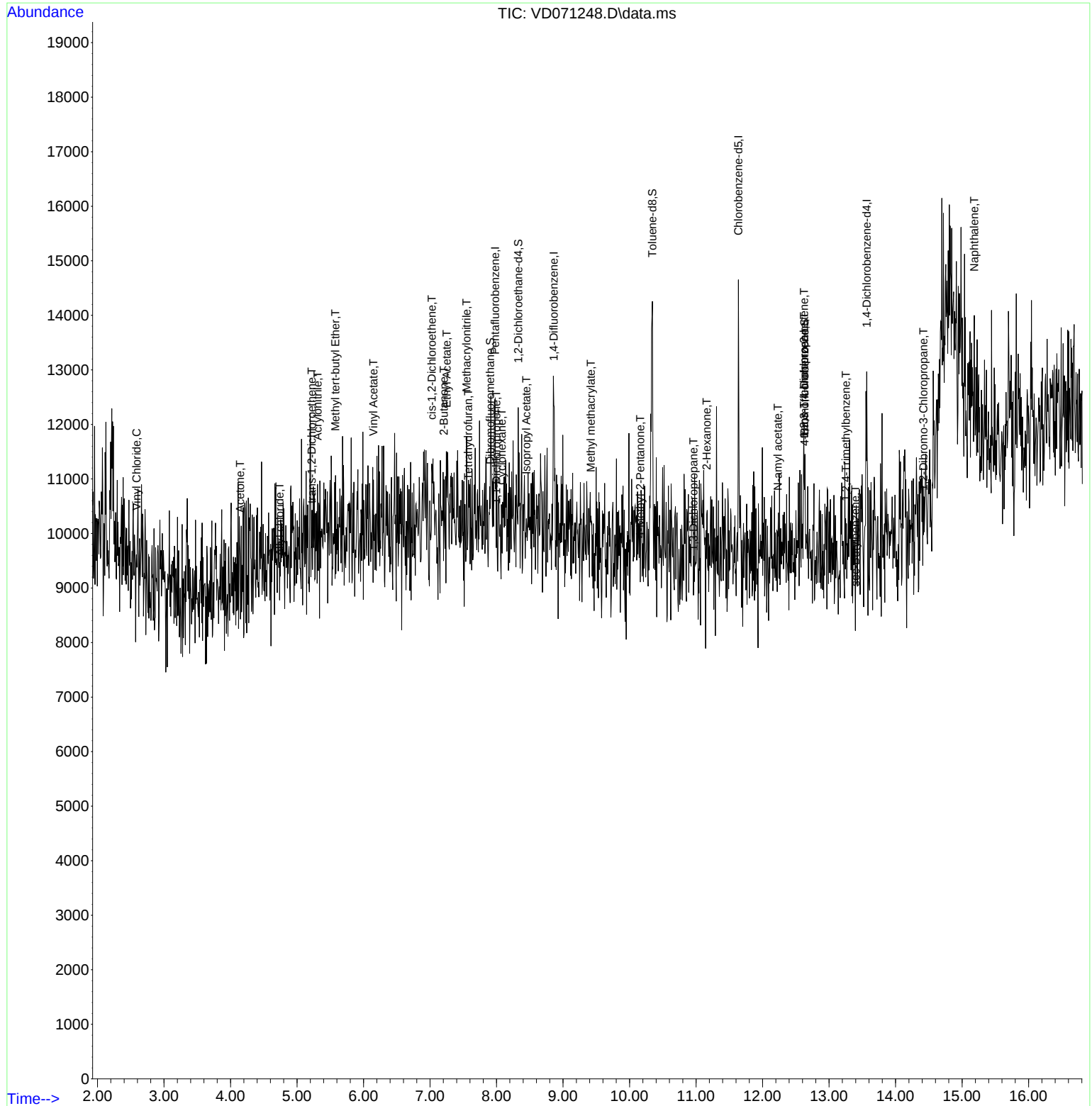
Internal Standards						
1) Pentafluorobenzene	7.979	168	1716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	2826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	2277	50.00	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	474	50.00	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	1320	65.56	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	131.12%		
35) Dibromofluoromethane	7.902	113	847	47.07	ug/l	-0.02
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.14%		
50) Toluene-d8	10.343	98	3018	44.07	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	88.14%		
62) 4-Bromofluorobenzene	12.632	95	931	39.22	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	78.44%		
Target Compounds						Qvalue
4) Vinyl Chloride	2.585	62	72	3.33	ug/l #	42
14) Allyl chloride	4.738	41	67	2.21	ug/l #	1
15) Acrylonitrile	5.308	53	78	20.22	ug/l #	19
16) Acetone	4.144	43	55	39.82	ug/l #	40
19) Methyl tert-butyl Ether	5.579	73	67	1.72	ug/l #	52
21) trans-1,2-Dichloroethene	5.220	96	59	3.29	ug/l #	1
23) Vinyl Acetate	6.150	43	55	28.71	ug/l #	72
25) 2-Butanone	7.208	43	197	56.64	ug/l #	45
27) cis-1,2-Dichloroethene	7.026	96	58	2.86	ug/l #	1
29) Tetrahydrofuran	7.573	42	80	25.02	ug/l #	46
31) Cyclohexane	8.079	56	70	2.04	ug/l #	19
36) 1,1-Dichloropropene	7.997	75	57	2.16	ug/l #	41
37) Ethyl Acetate	7.250	43	72	6.31	ug/l #	66
41) Methacrylonitrile	7.550	41	63	9.09	ug/l #	1
43) Isopropyl Acetate	8.449	43	54	7.15	ug/l #	47
48) Methyl methacrylate	9.420	41	60	5.37	ug/l #	15
51) 4-Methyl-2-Pentanone	10.161	43	58	34.61	ug/l #	34
57) 1,3-Dichloropropane	10.961	76	75	3.32	ug/l #	24
59) 2-Hexanone	11.161	43	61	40.00	ug/l #	22
74) N-amyl acetate	12.232	43	134	18.34	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	457	101.19	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	457	215.13	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.255	105	56	2.03	ug/l #	31
85) sec-Butylbenzene	13.396	105	63	1.70	ug/l #	57
92) 1,2-Dibromo-3-Chloropr...	14.420	75	55	59.75	ug/l #	4
95) Naphthalene	15.184	128	54	3.90	ug/l #	69

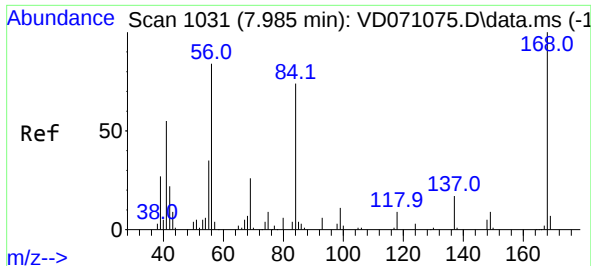
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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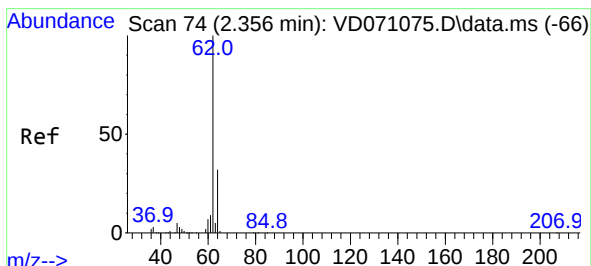
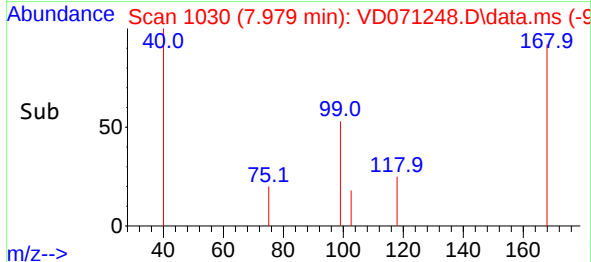
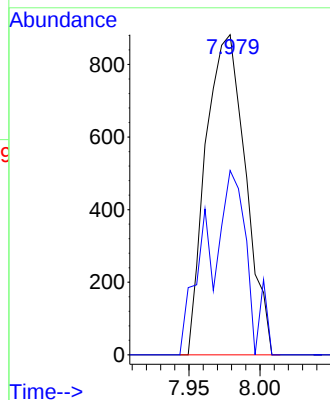
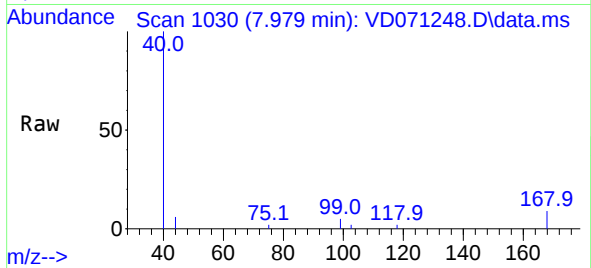




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 110
Delta R.T. -0.006 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

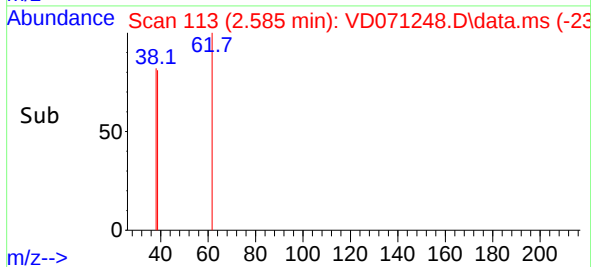
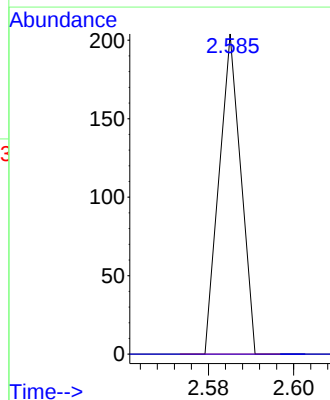
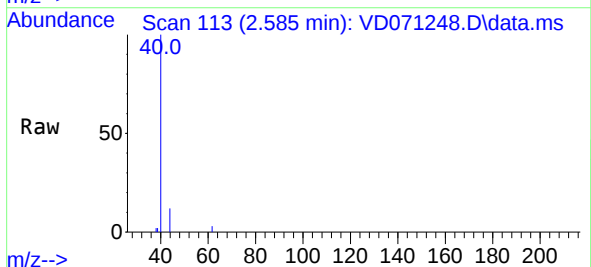
Instrument :
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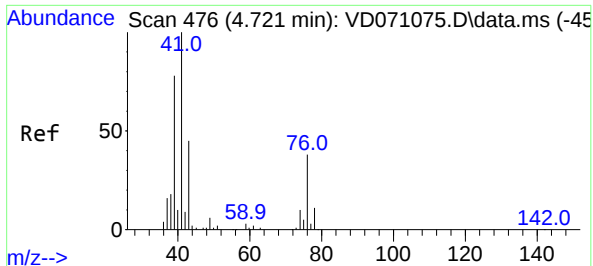
Tgt Ion:168 Resp: 1716
Ion Ratio Lower Upper
168 100
99 57.6 46.6 69.8



#4
Vinyl Chloride
Concen: 3.33 ug/l
RT: 2.585 min Scan# 113
Delta R.T. 0.229 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 62 Resp: 72
Ion Ratio Lower Upper
62 100
64 0.0 26.0 39.0#





#14

Allyl chloride

Concen: 2.21 ug/l

RT: 4.738 min Scan# 41

Delta R.T. 0.017 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Instrument :

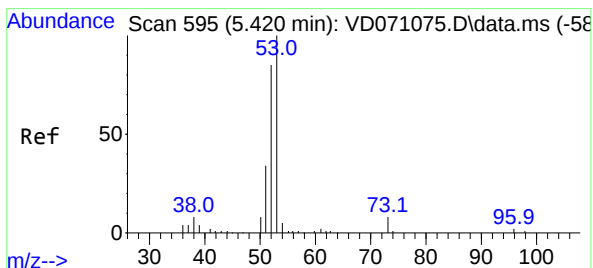
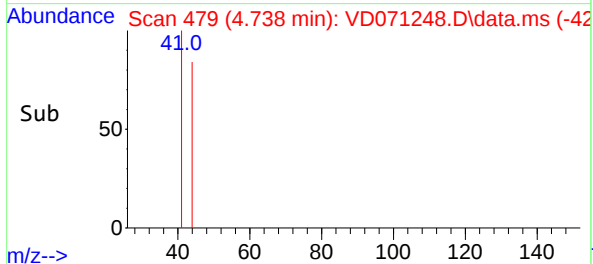
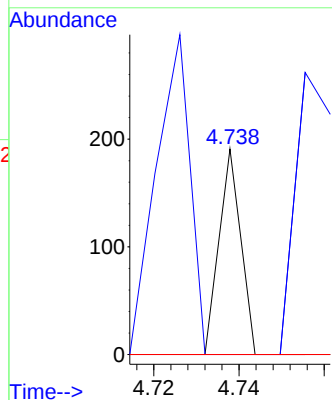
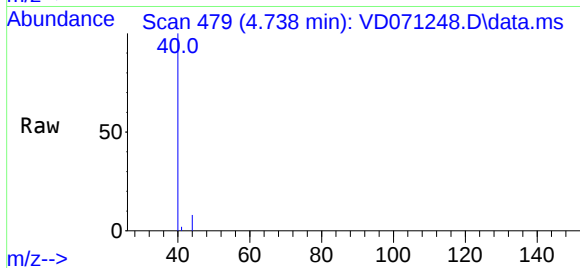
MSVOA_D

ClientSampleId :

TP-7DRE

Tgt Ion: 41 Resp: 67

Ion	Ratio	Lower	Upper
41	100		
39	244.8	45.6	68.4#
76	0.0	30.2	45.4#



#15

Acrylonitrile

Concen: 20.22 ug/l

RT: 5.308 min Scan# 576

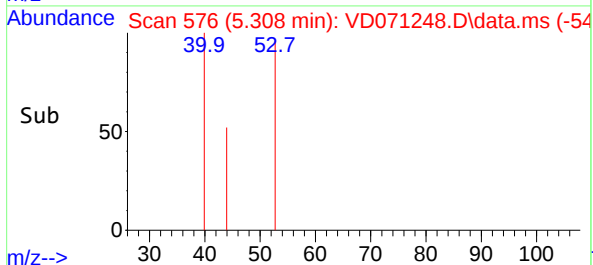
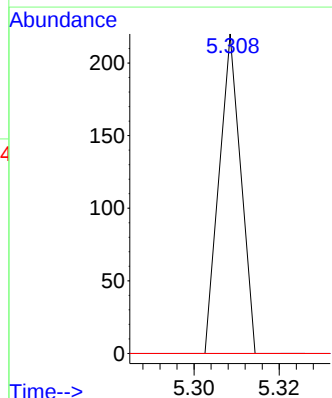
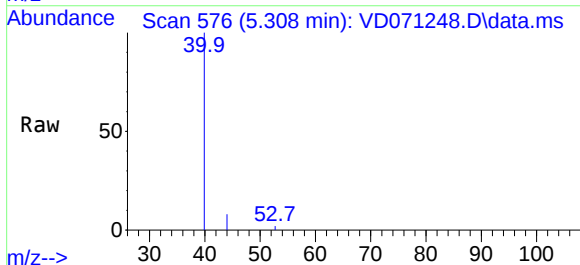
Delta R.T. -0.112 min

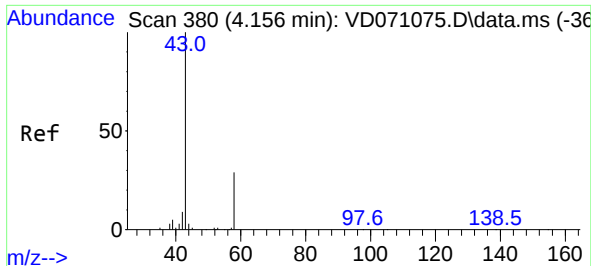
Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Tgt Ion: 53 Resp: 78

Ion	Ratio	Lower	Upper
53	100		
52	0.0	63.8	95.8#
51	0.0	28.5	42.7#

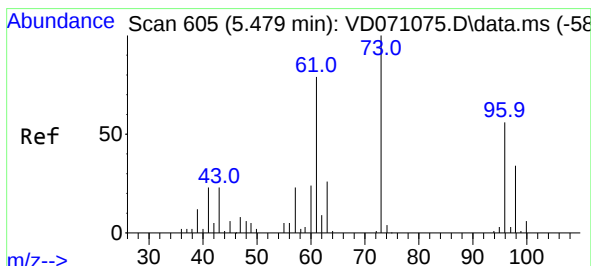
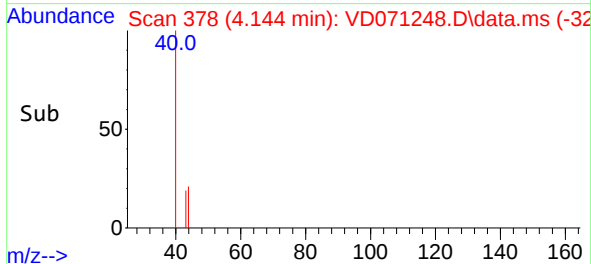
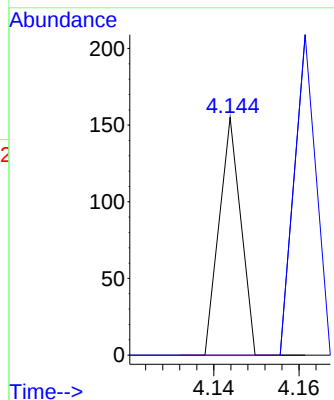
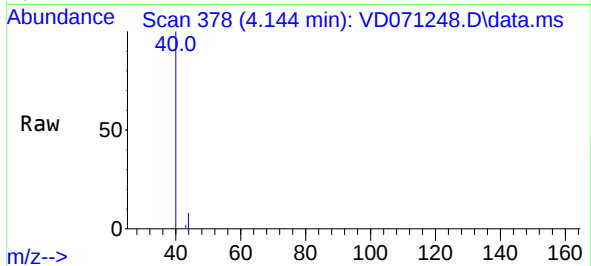




#16
Acetone
Concen: 39.82 ug/l
RT: 4.144 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

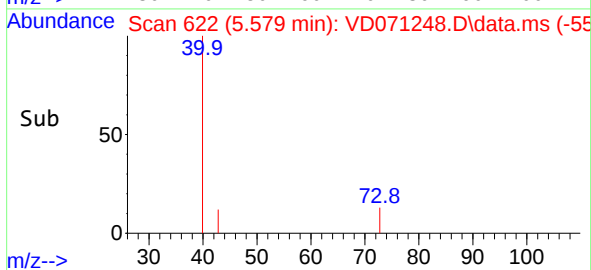
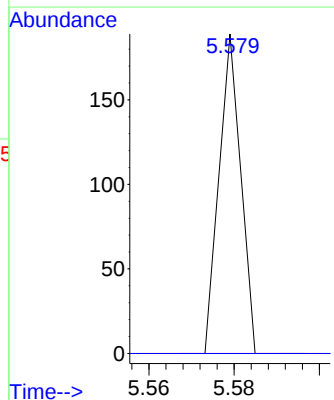
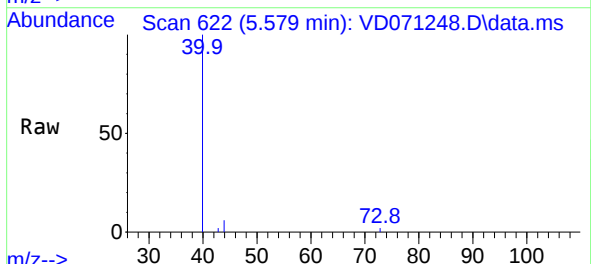
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TP-7DRE

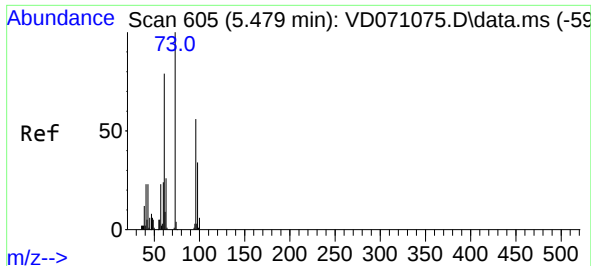
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#19
Methyl tert-butyl Ether
Concen: 1.72 ug/l
RT: 5.579 min Scan# 622
Delta R.T. 0.100 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 73 Resp: 67
Ion Ratio Lower Upper
73 100
57 0.0 18.9 28.3#

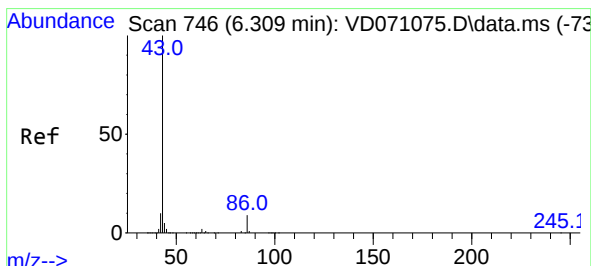
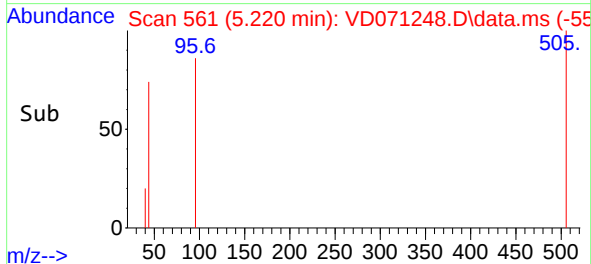
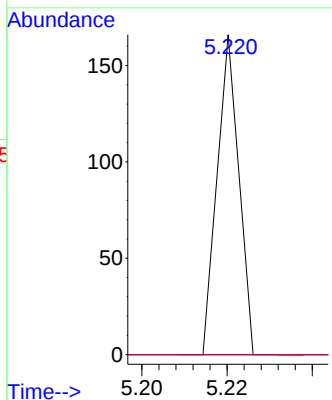
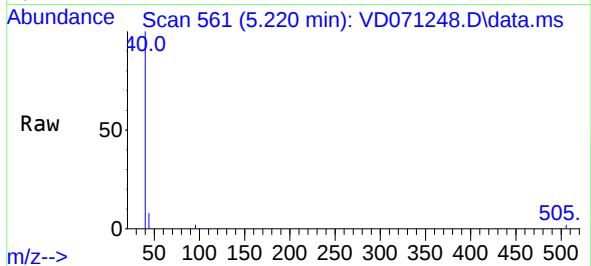




#21
trans-1,2-Dichloroethene
Concen: 3.29 ug/l
RT: 5.220 min Scan# 509
Delta R.T. -0.259 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

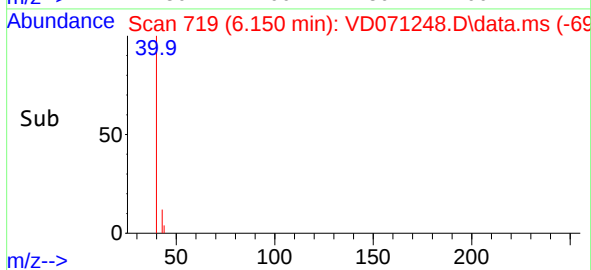
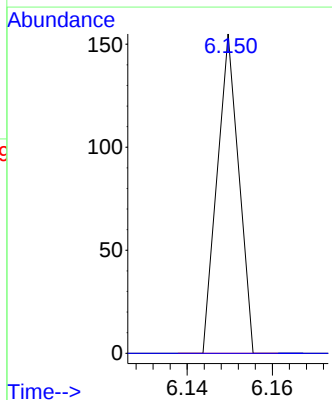
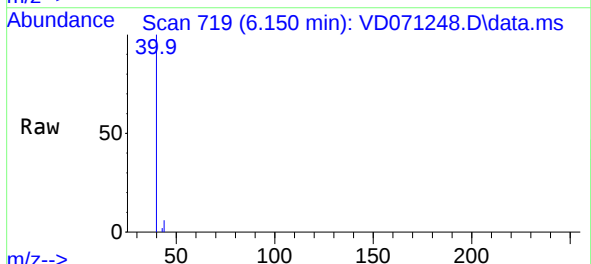
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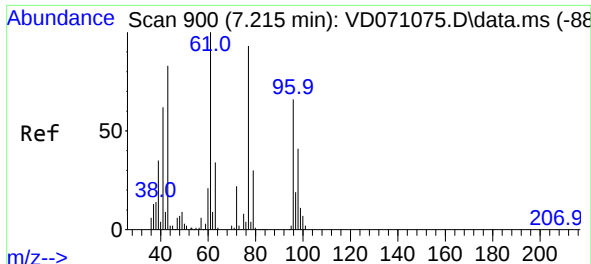
Tgt Ion: 96 Resp: 59
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#



#23
Vinyl Acetate
Concen: 28.71 ug/l
RT: 6.150 min Scan# 719
Delta R.T. -0.159 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#

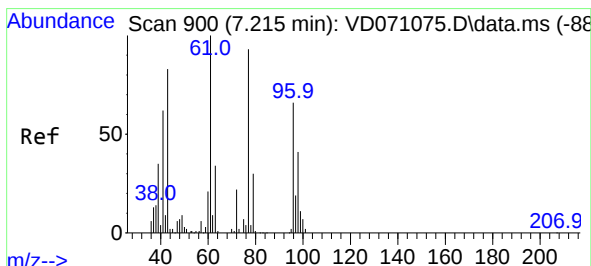
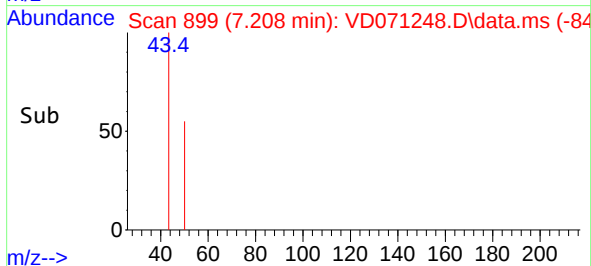
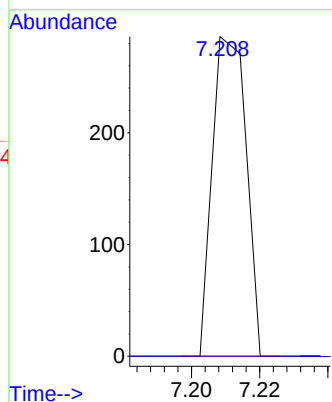
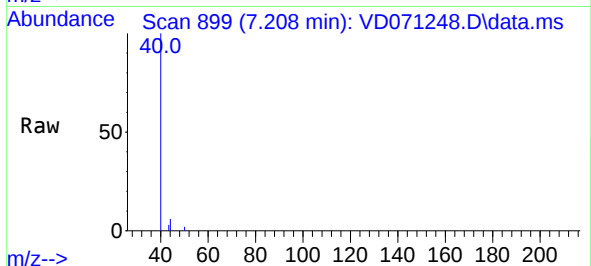




#25
2-Butanone
Concen: 56.64 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.007 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

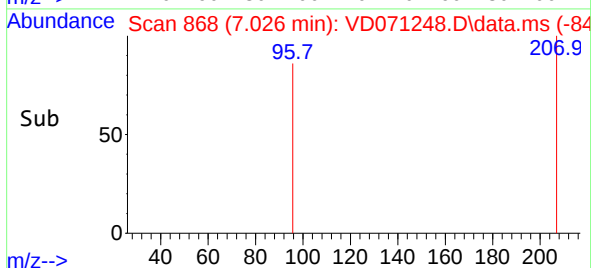
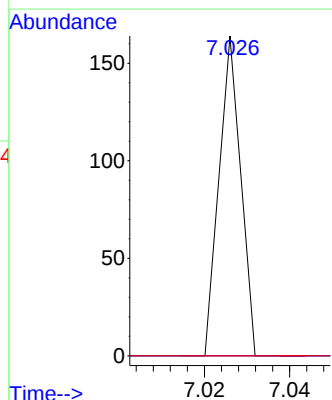
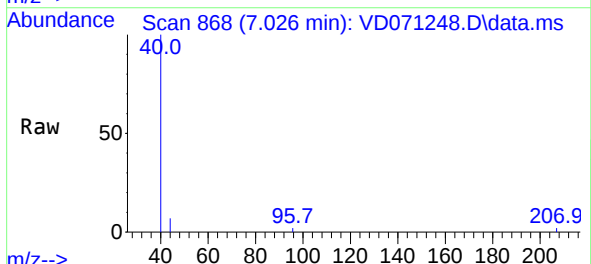
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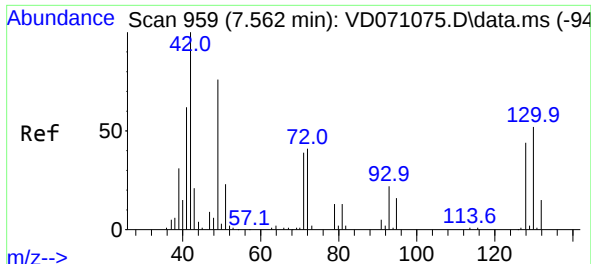
Tgt Ion: 43 Resp: 197
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#27
cis-1,2-Dichloroethene
Concen: 2.86 ug/l
RT: 7.026 min Scan# 868
Delta R.T. -0.189 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 96 Resp: 58
Ion Ratio Lower Upper
96 100
61 0.0 0.0 288.6
98 0.0 0.0 129.2

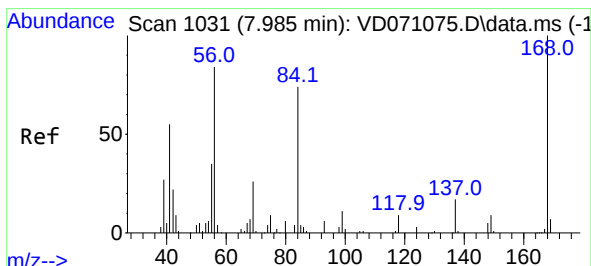
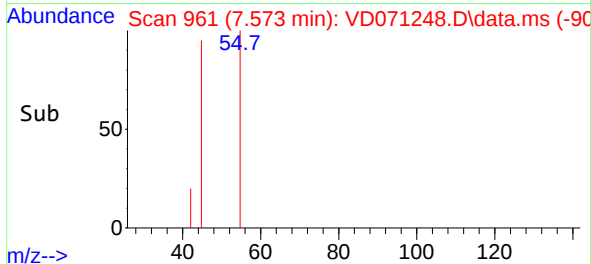
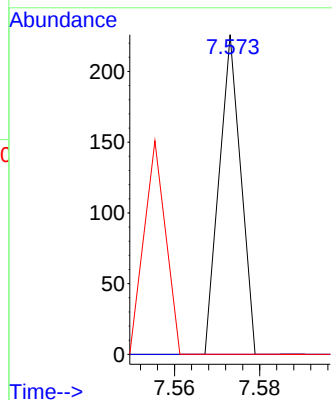
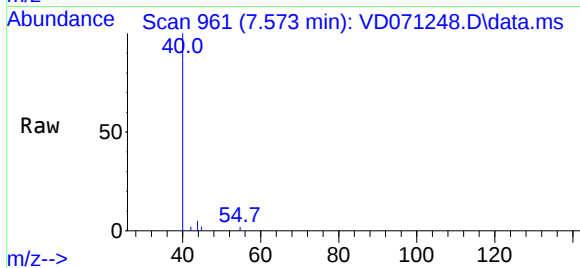




#29
Tetrahydrofuran
Concen: 25.02 ug/l
RT: 7.573 min Scan# 90
Delta R.T. 0.011 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

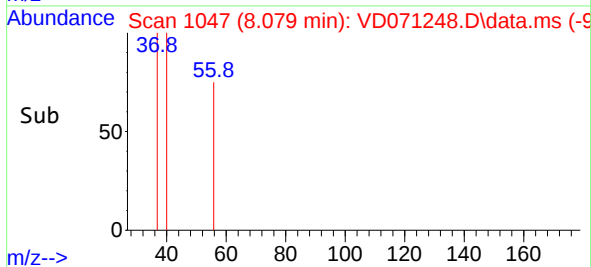
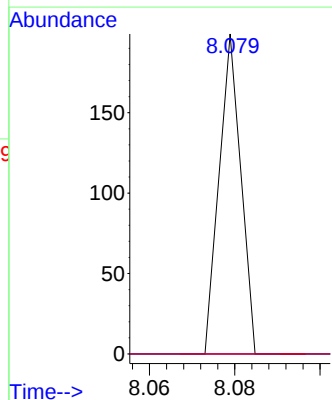
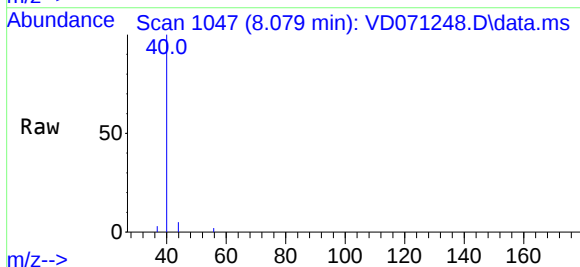
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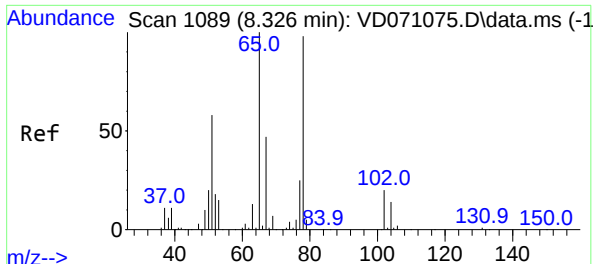
Tgt Ion:	42	Resp:	80
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	66.3	32.7	49.1#



#31
Cyclohexane
Concen: 2.04 ug/l
RT: 8.079 min Scan# 1047
Delta R.T. 0.094 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion:	56	Resp:	70
Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.9	38.9#
84	0.0	64.3	96.5#

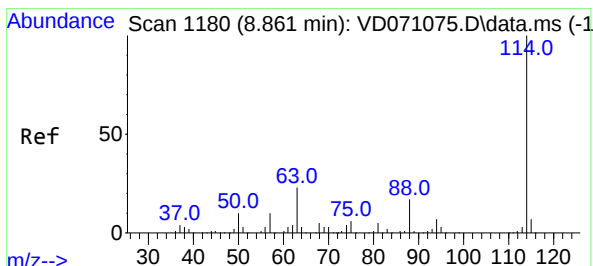
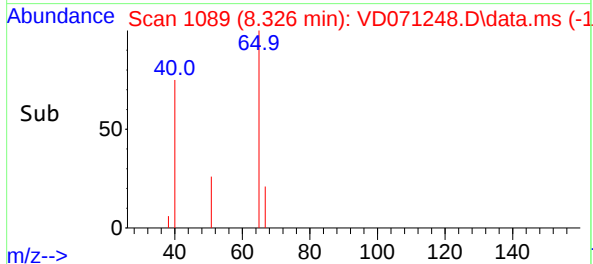
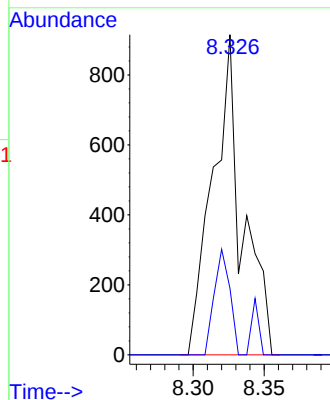
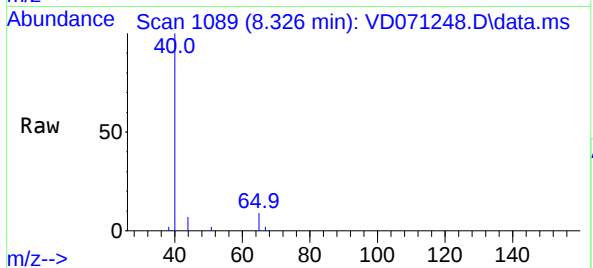




#33
1,2-Dichloroethane-d4
Concen: 65.56 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

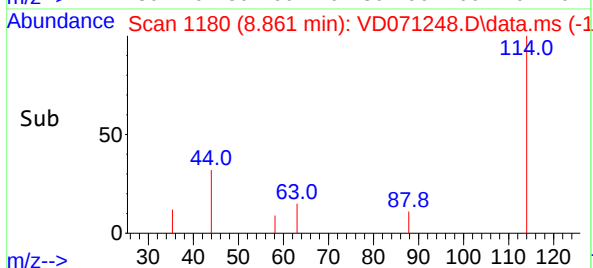
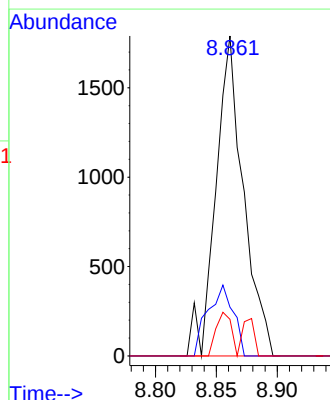
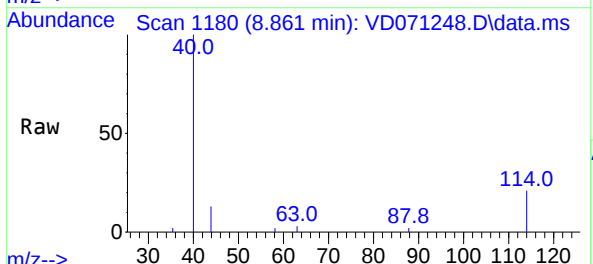
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ClientSampleId :
TP-7DRE

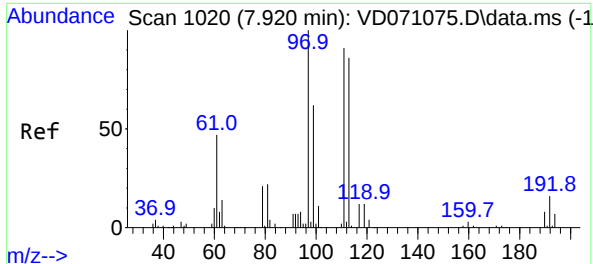
Tgt Ion: 65 Resp: 1320
Ion Ratio Lower Upper
65 100
67 17.4 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 114 Resp: 2826
Ion Ratio Lower Upper
114 100
63 15.3 0.0 41.8
88 11.5 0.0 32.8

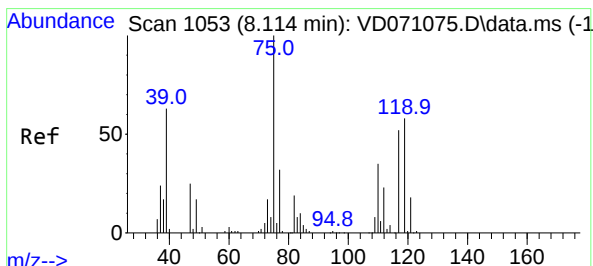
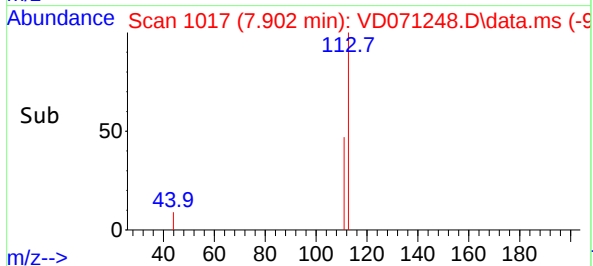
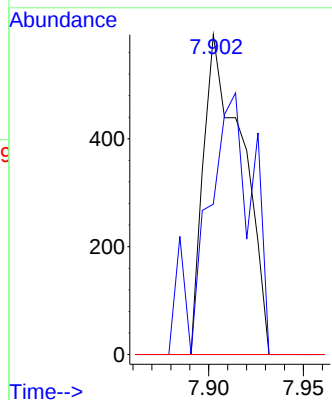
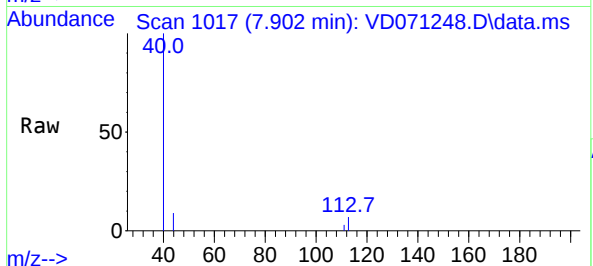




#35
Dibromofluoromethane
Concen: 47.07 ug/l
RT: 7.902 min Scan# 1017
Delta R.T. -0.018 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

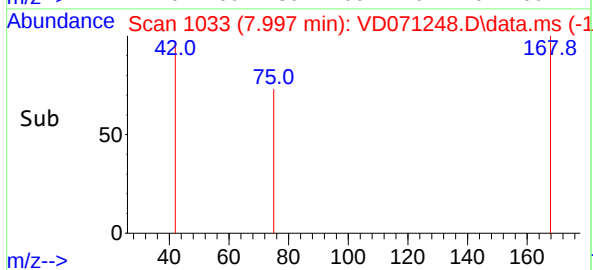
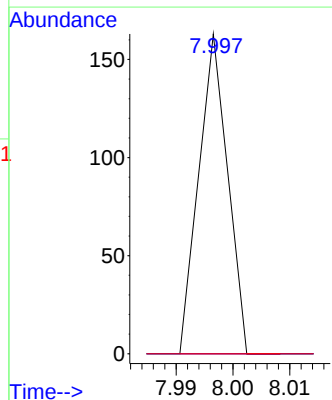
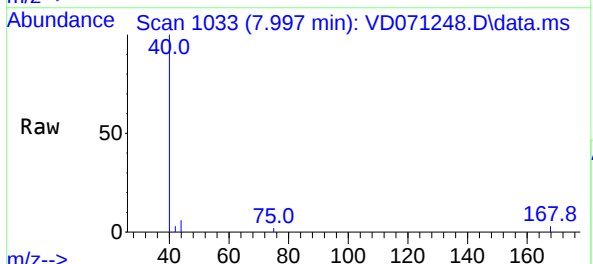
Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

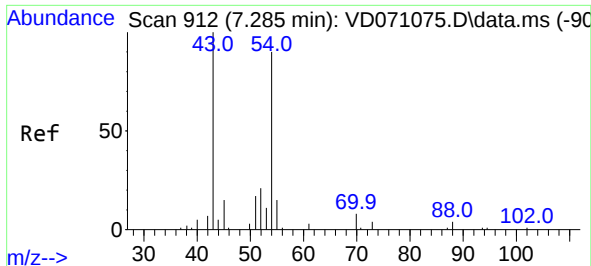
Tgt Ion:113 Resp: 847
Ion Ratio Lower Upper
113 100
111 96.7 82.0 123.0
192 0.0 15.2 22.8#



#36
1,1-Dichloropropene
Concen: 2.16 ug/l
RT: 7.997 min Scan# 1033
Delta R.T. -0.117 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 75 Resp: 57
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 6.31 ug/l

RT: 7.250 min Scan# 90

Delta R.T. -0.035 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

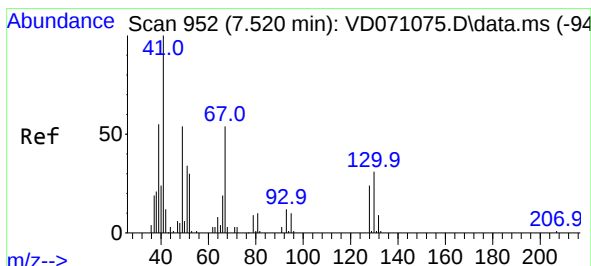
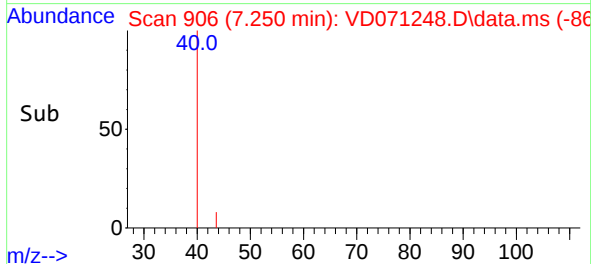
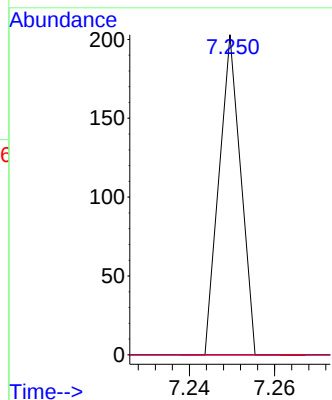
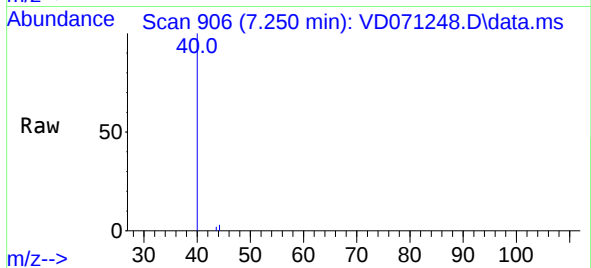
Instrument :

MSVOA_D

ClientSampleId :

TP-7DRE

Tgt Ion: 43	Resp:	72
Ion	Ratio	Lower Upper
43	100	
61	0.0	13.0 19.6#
70	0.0	8.7 13.1#



#41

Methacrylonitrile

Concen: 9.09 ug/l

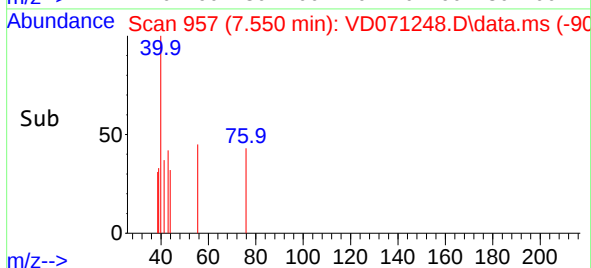
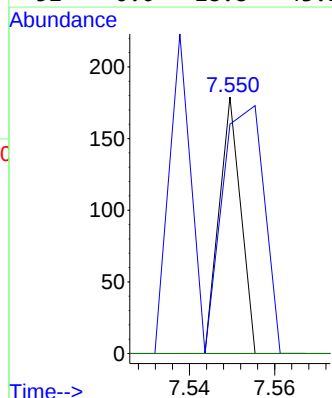
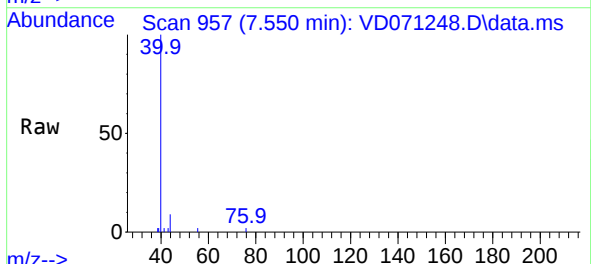
RT: 7.550 min Scan# 957

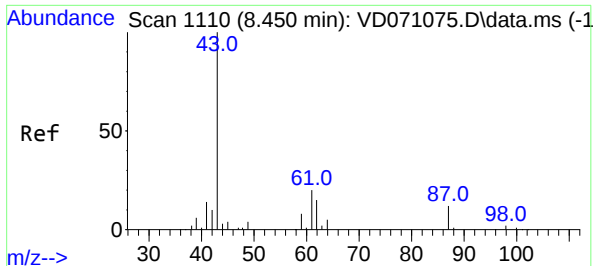
Delta R.T. 0.030 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Tgt Ion: 41	Resp:	63
Ion	Ratio	Lower Upper
41	100	
39	185.7	60.2 90.4#
67	0.0	74.8 112.2#
52	0.0	28.8 43.2#

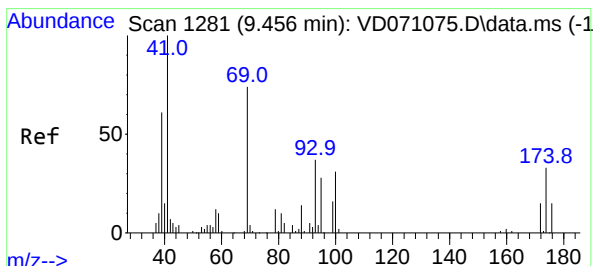
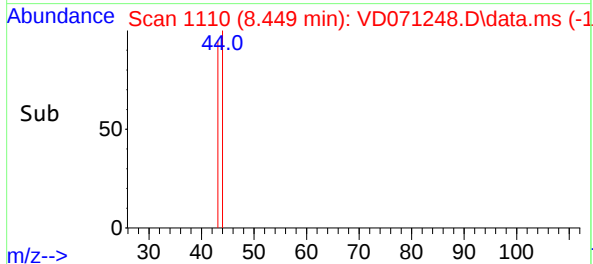
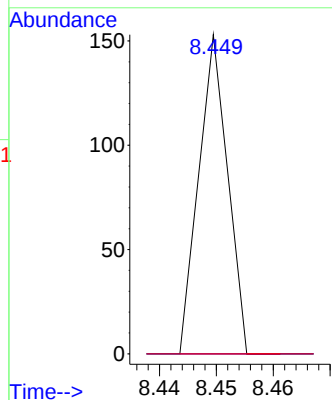
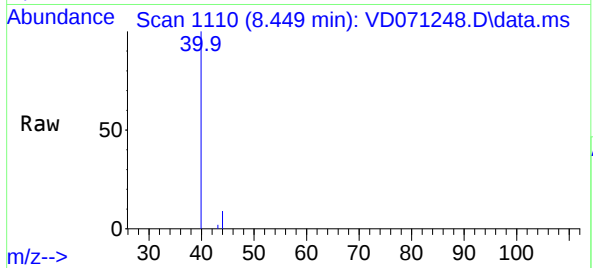




#43
Isopropyl Acetate
Concen: 7.15 ug/l
RT: 8.449 min Scan# 1110
Delta R.T. -0.001 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

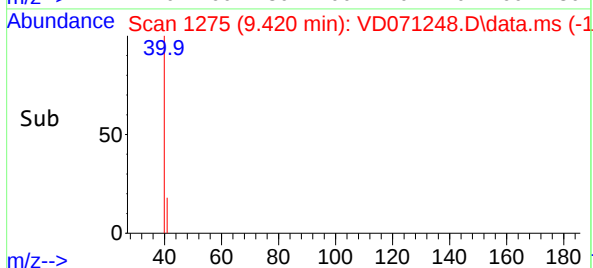
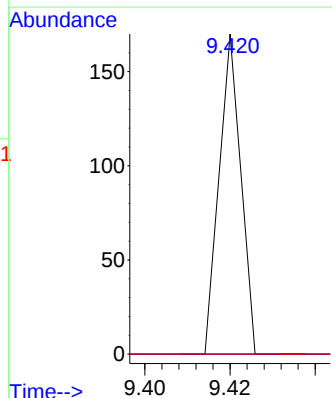
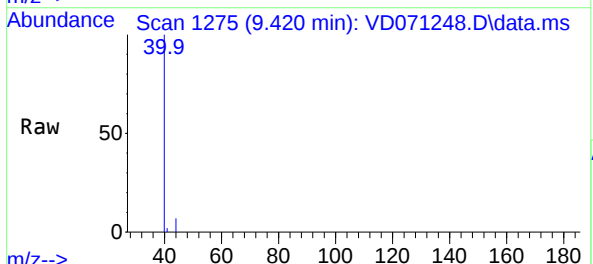
Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

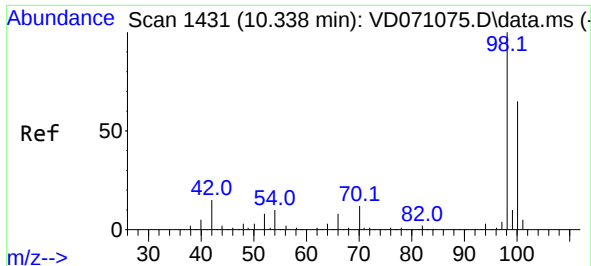
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#48
Methyl methacrylate
Concen: 5.37 ug/l
RT: 9.420 min Scan# 1275
Delta R.T. -0.036 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 0.0 35.6 53.4#

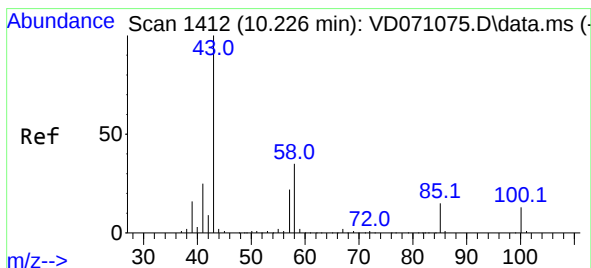
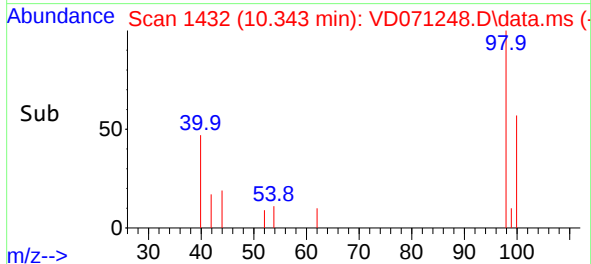
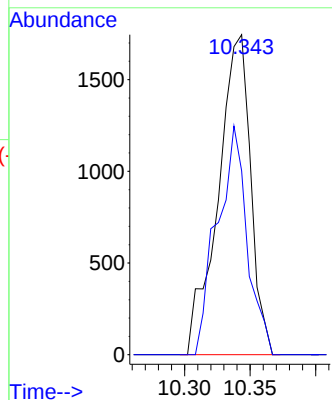
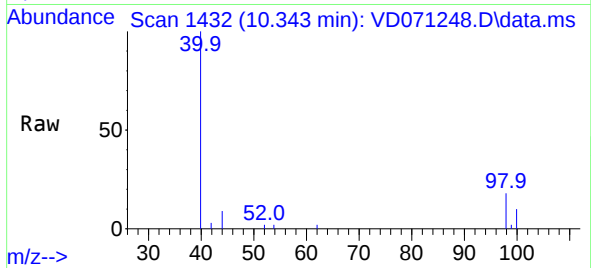




#50
Toluene-d8
Concen: 44.07 ug/l
RT: 10.343 min Scan# 1401
Delta R.T. 0.005 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

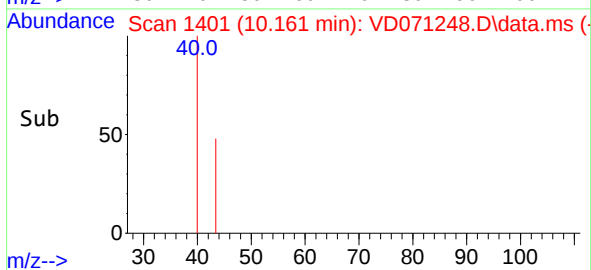
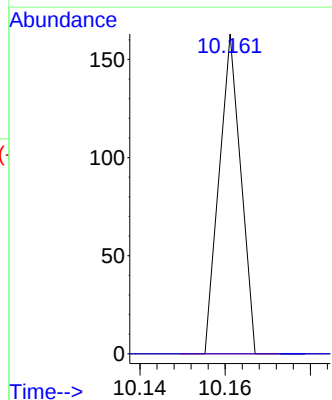
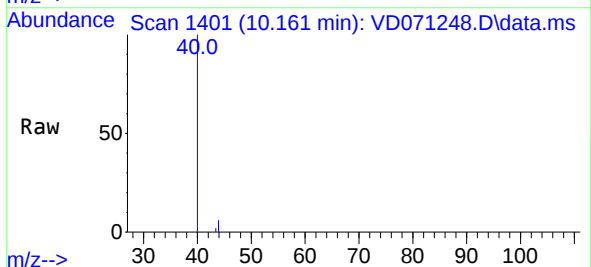
Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

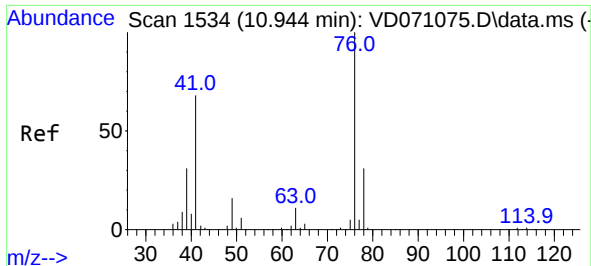
Tgt Ion: 98 Resp: 3018
Ion Ratio Lower Upper
98 100
100 65.8 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 34.61 ug/l
RT: 10.161 min Scan# 1401
Delta R.T. -0.065 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





#57

1,3-Dichloropropane

Concen: 3.32 ug/l

RT: 10.961 min Scan# 11

Delta R.T. 0.017 min

Lab File: VD071248.D

Acq: 10 Dec 2021 13:36

Instrument :

MSVOA_D

ClientSampleId :

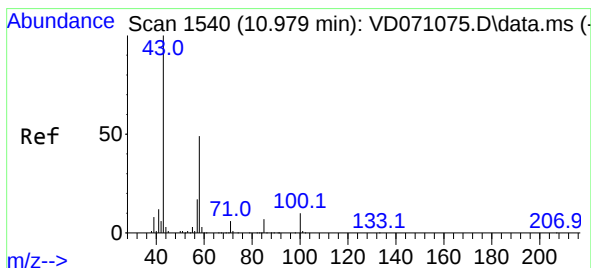
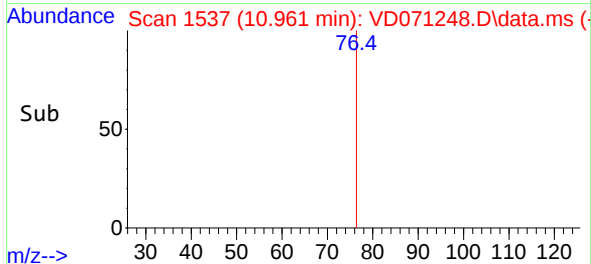
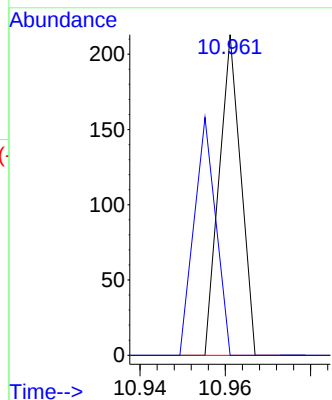
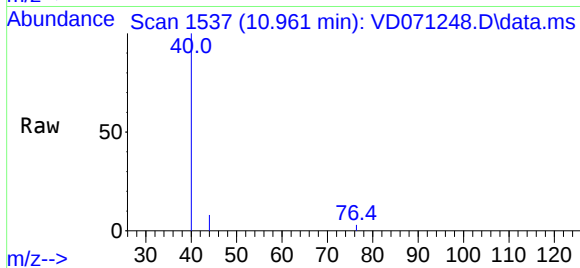
TP-7DRE

Tgt Ion: 76 Resp: 75

Ion Ratio Lower Upper

76 100

78 74.7 25.8 38.6#



#59

2-Hexanone

Concen: 40.00 ug/l

RT: 11.161 min Scan# 1571

Delta R.T. 0.182 min

Lab File: VD071248.D

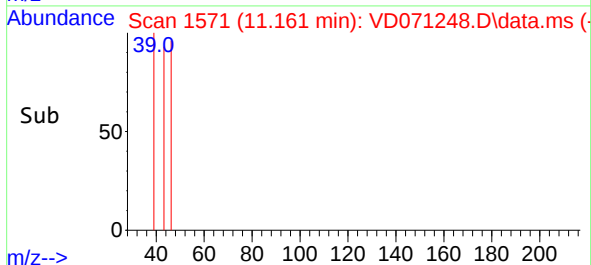
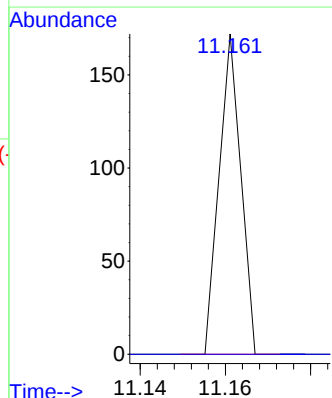
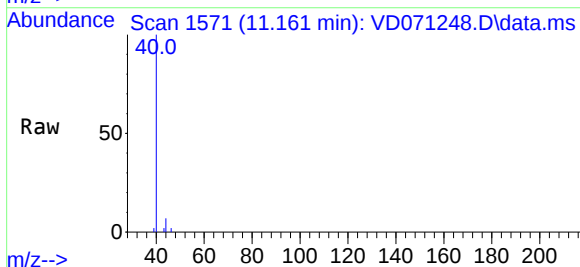
Acq: 10 Dec 2021 13:36

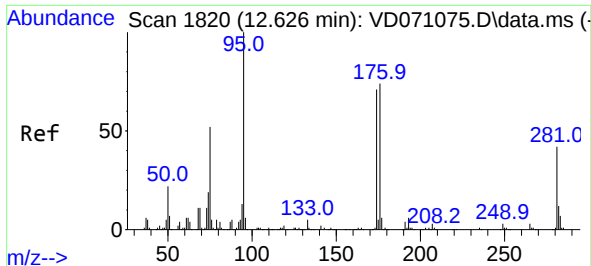
Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#

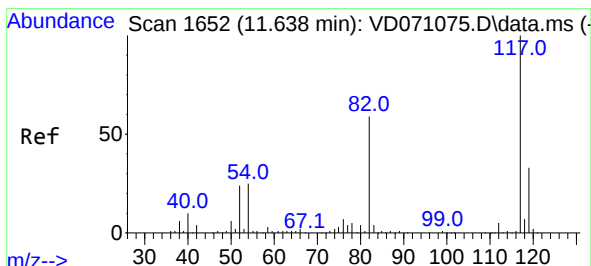
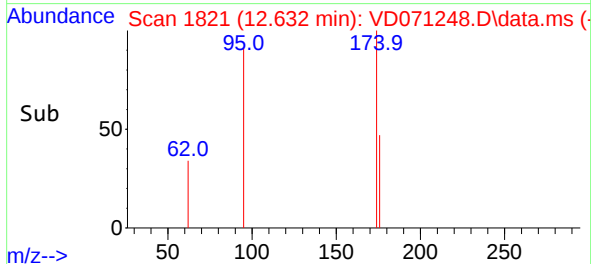
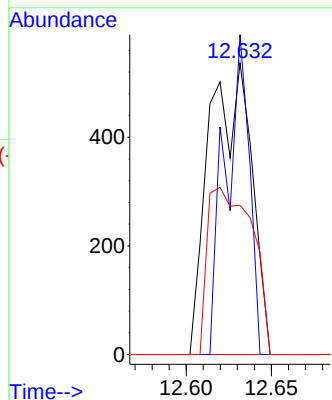
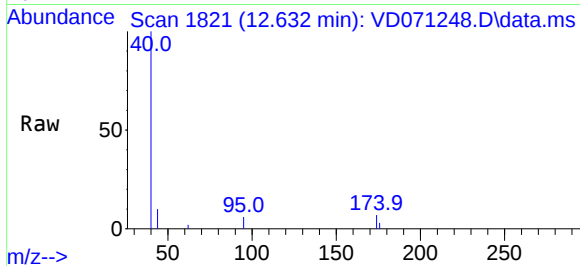




#62
4-Bromofluorobenzene
Concen: 39.22 ug/l
RT: 12.632 min Scan# 1820
Delta R.T. 0.006 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

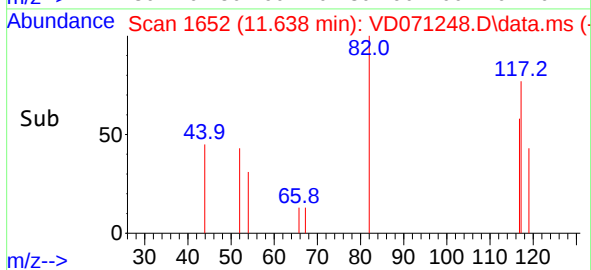
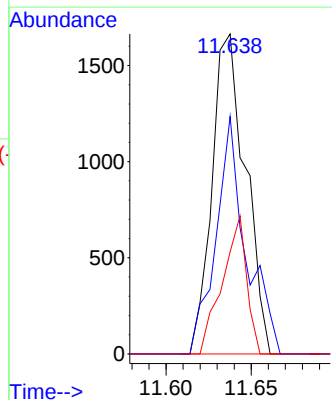
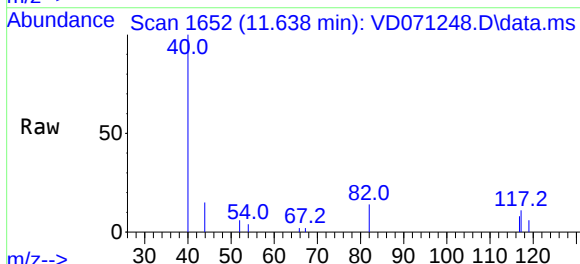
Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

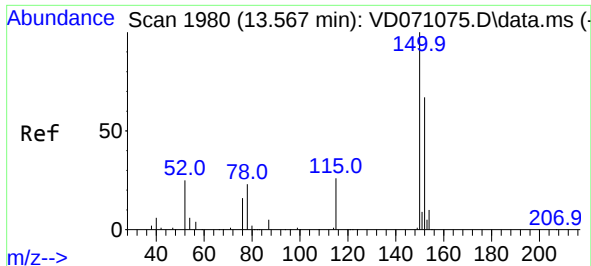
Tgt Ion: 95	Resp: 931
Ion Ratio	Lower Upper
95 100	
174 61.4	0.0 159.4
176 60.4	0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

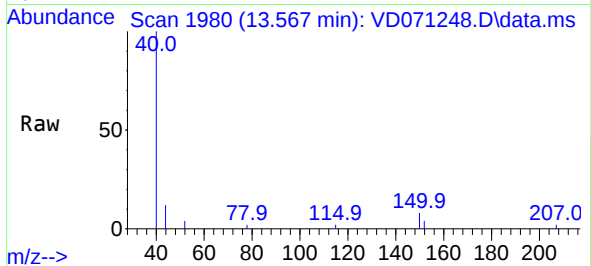
Tgt Ion:117	Resp:	2277	
Ion	Ratio	Lower	Upper
117	100		
82	74.2	44.7	67.1#
119	31.9	26.2	39.4



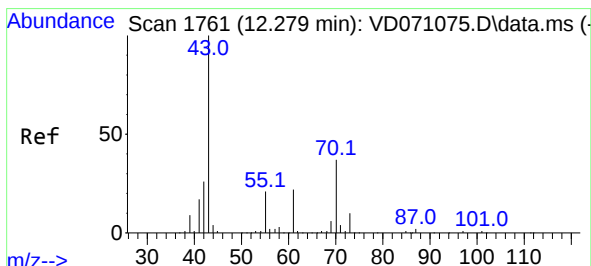
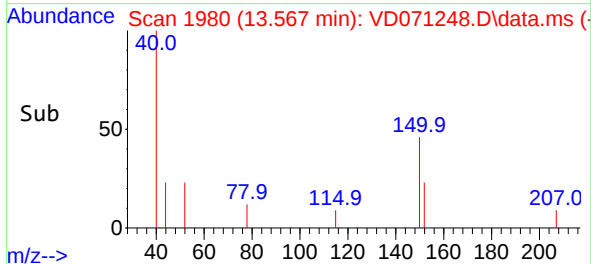
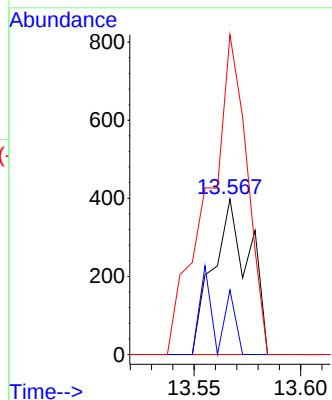


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

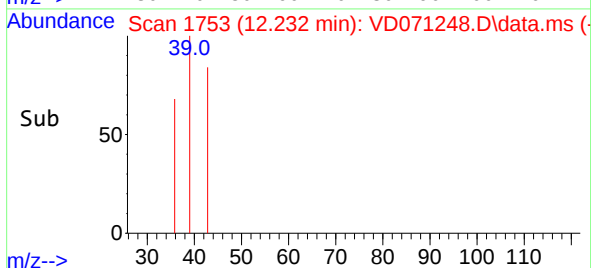
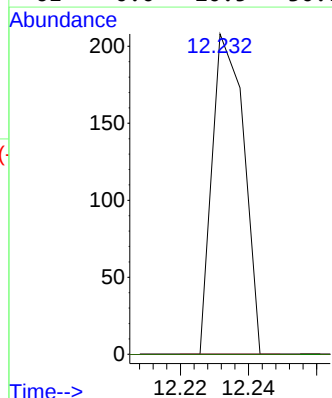
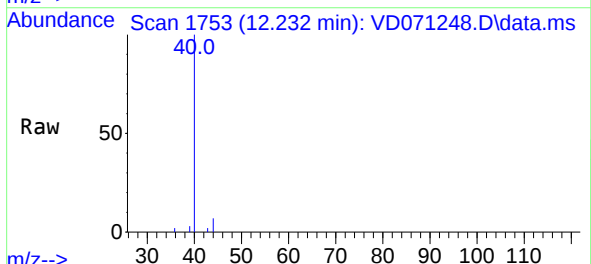


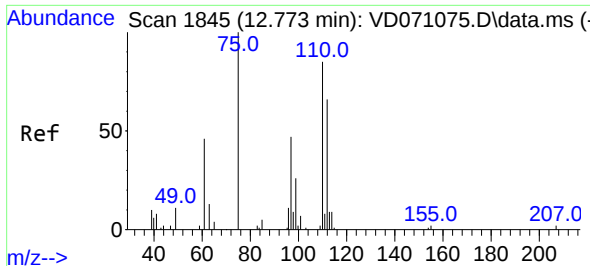
Tgt Ion:152 Resp: 474
Ion Ratio Lower Upper
152 100
115 29.1 29.8 89.3#
150 222.4 0.0 349.2



#74
N-ethyl acetate
Concen: 18.34 ug/l
RT: 12.232 min Scan# 1753
Delta R.T. -0.047 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 43 Resp: 134
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

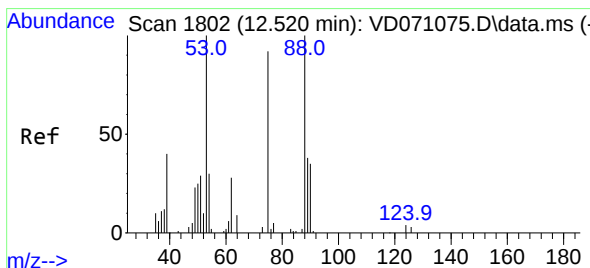
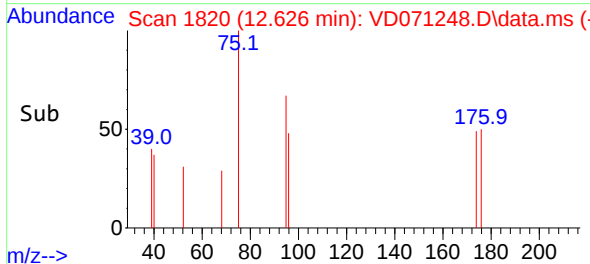
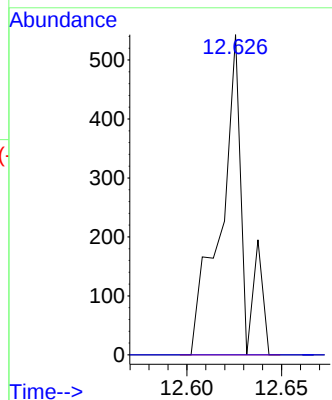
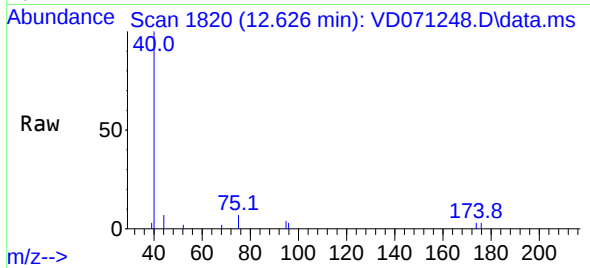




#76
1,2,3-Trichloropropane
Concen: 101.19 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

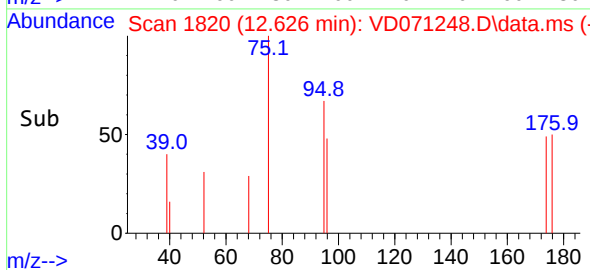
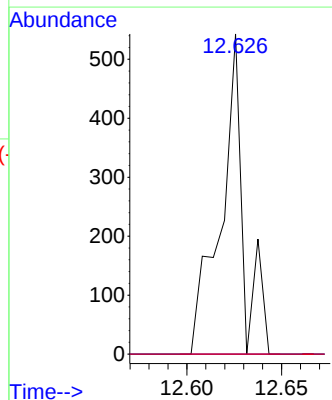
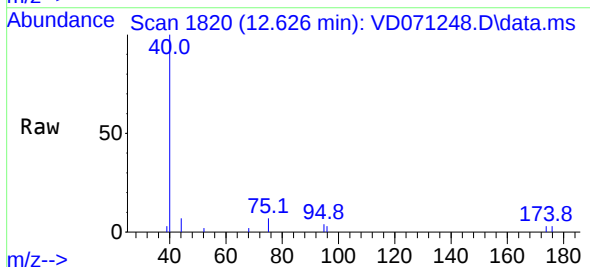
Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

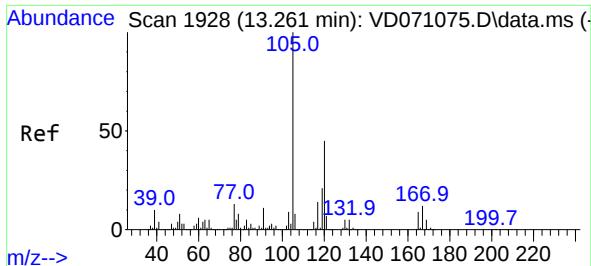
Tgt Ion: 75 Resp: 457
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 215.13 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 75 Resp: 457
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

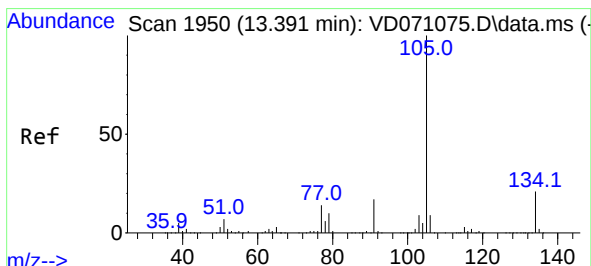
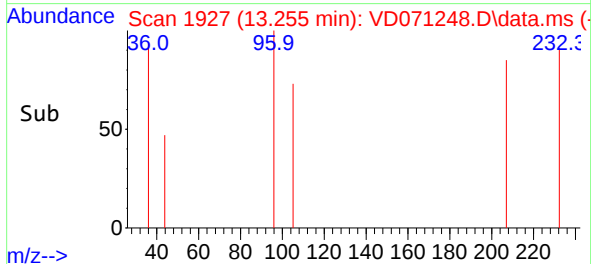
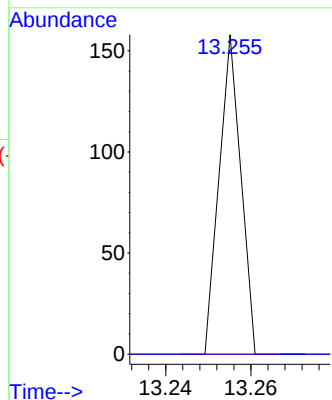
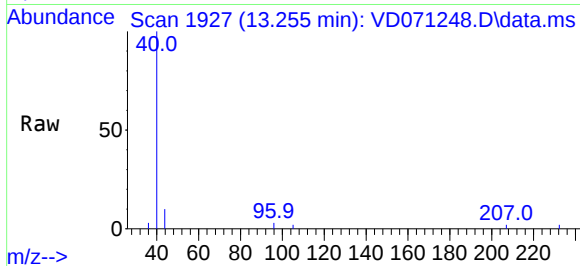




#84
1,2,4-Trimethylbenzene
Concen: 2.03 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

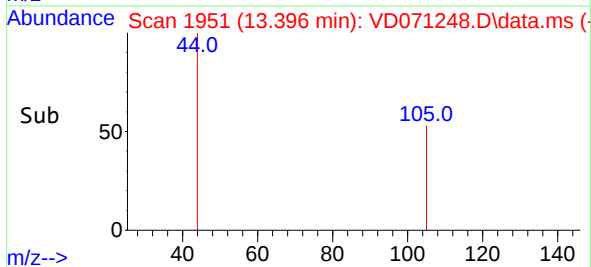
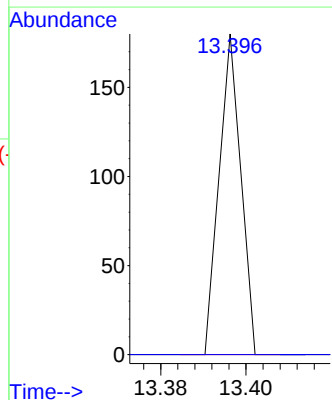
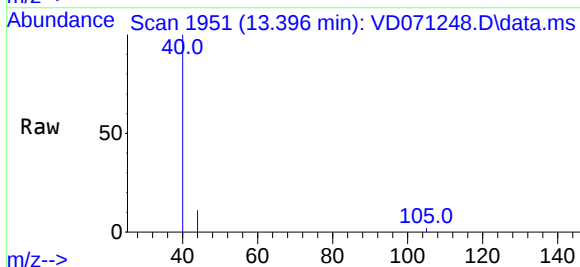
Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

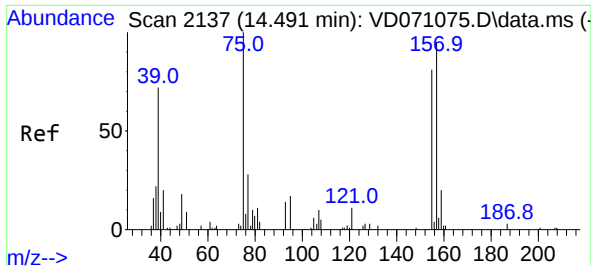
Tgt Ion:105 Resp: 56
Ion Ratio Lower Upper
105 100
120 0.0 22.9 68.7#



#85
sec-Butylbenzene
Concen: 1.70 ug/l
RT: 13.396 min Scan# 1951
Delta R.T. 0.005 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion:105 Resp: 63
Ion Ratio Lower Upper
105 100
134 0.0 9.7 28.9#

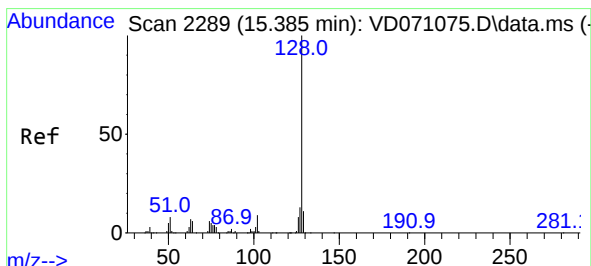
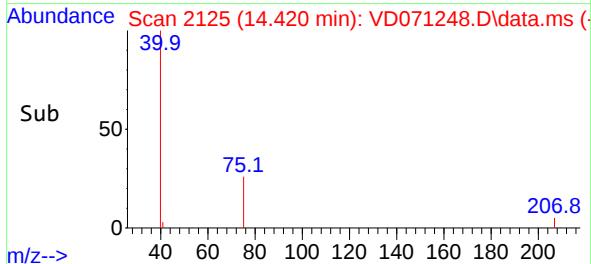
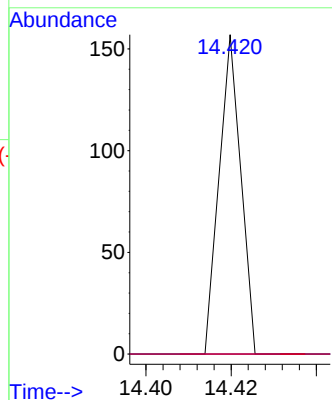
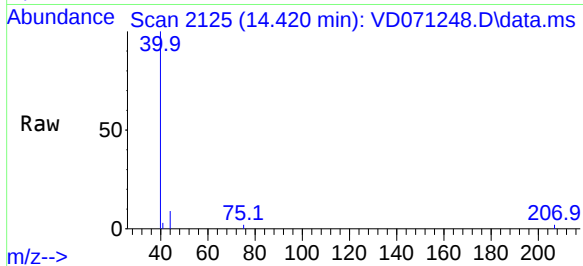




#92
1,2-Dibromo-3-Chloropropane
Concen: 59.75 ug/l
RT: 14.420 min Scan# 2137
Delta R.T. -0.071 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Instrument :
MSVOA_D
ClientSampleId :
TP-7DRE

Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#



#95
Naphthalene
Concen: 3.90 ug/l
RT: 15.184 min Scan# 2255
Delta R.T. -0.201 min
Lab File: VD071248.D
Acq: 10 Dec 2021 13:36

Tgt Ion: 128 Resp: 54
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#

